

Appl. No. 10/730,042
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Supplemental Amendment

Amendments To The Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing Of Claims:

Claim 1 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container, which cargo is subject to shifting forces during transport, said load restraining strip comprising:

a first, cross-weave layer of reinforcement material having a first side and a second side and being composed of,

substantially parallel longitudinal strands extending along the length of said restraining strip, and

crossing strands interwoven with said substantially parallel longitudinal strands to produce said cross-weave layer of reinforcement material;

a first adhesive layer having a first side and a second side and coextensively extending along , coating and bonding to said second side of said cross-weave material;

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a second, parallel strand layer of reinforcement material having a first side and a second side, wherein said second side of said first adhesive layer is bonded to said first side of said second, parallel strand layer of reinforcement material;

a second layer of adhesive having a first side and a second side and at least partially extending along and coating a portion of said second side of said second strand layer of reinforcement material; and

a release paper extending coextensively with and releasably adhered to the second side of said second layer of adhesive, wherein said release paper may be removed from said second layer of adhesive on site and said load restraining strip releasably affixed to an interior surface of a cargo transport container such that said load restraining strip may be used as a flexible securement element to secure cargo within a transport container.

Claim 2 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 1 wherein said first, cross-weave layer of reinforcement material is formed such that:

spacing between next adjacent ones of said crossing strands of said cross-weave layer of reinforcement material is approximately twice as great as spacing

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between next adjacent strands of ones of said substantially parallel longitudinal strands.

Claim 3 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 1 wherein said first, cross-weave layer of reinforcement material further comprises:

a pliant coating applied to an outer surface of said cross-weave material.

Claim 4 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 3 wherein said pliant coating comprises:

a layer of biaxially-oriented polyethylene terephthalate polyester film.

Claim 5 (original): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 1 wherein said first adhesive layer includes:

a spun bonded polyester substrate located generally centrally within said first adhesive layer.

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Claim 6 (original): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 1 wherein:

said substantially parallel longitudinal strands of said cross-weave layer comprises a plurality of finer denier fibers of reinforcement material.

Claim 7 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 6 wherein:

said strands of second, parallel strand layer of reinforcement material comprise a plurality of finer denier fibers of reinforcing material.

Claim 8 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 6 or 7, wherein said finer denier fibers are composed of:

polyester.

Claim 9 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 6 or 7, wherein said finer denier fibers are composed of:

polypropylene.

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Claim 10 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 6 or 7, wherein said finer denier fibers are composed of:

polyethylene.

Claim 11 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 6 or 7, wherein said finer denier fibers are composed of:

polyolefin.

Claim 12 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 6 or 7, wherein said finer denier fibers are composed of:

glass fiber.

Claim 13 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 6 or 7, wherein said finer denier fibers are composed of:

an aramid.

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Claim 14 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 6 or 7, wherein said finer denier fibers are composed of:

carbon fibers.

Claim 15 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 6 or 7, wherein said finer denier fibers are composed of:

polyamide fibers with amide groups separated by para-phenylene groups.

Claim 16 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 6 or 7, wherein said finer denier fibers are composed of:

a combination of at least two different fibers selected from the group consisting of a polyester, polypropylene, polyethylene, polyolefin, glass fiber, aramid, carbon fiber and polyamide fibers with amide groups separated by para-phenylene groups.

Claim 17 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 1, wherein said second layer of adhesive includes:

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a substrate material having a first side and a second side;

a first course of adhesive covering said first side of said substrate material and adhered to said second side of said second, parallel strand layer of reinforcement material; and

a second course of adhesive covering said second side of said substrate material and being operable for adhering contact with an interior surface of a cargo transport container.

Claim 18 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 17, wherein said substrate material comprises:

a strip of biaxially-oriented polyethylene terephthalate polyester film material.

Claim 19 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 17, wherein:

said first course of adhesive of said second layer of adhesive is thicker than said second course of adhesive.

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Claims 20 – 22 (canceled) Cancel claims 20-22, without prejudice to filing a divisional application, pursuant to a requirement for restriction levied on January 3, 2005 and not withdrawn in the outstanding Office Action.

Claim 23 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container, which cargo is subject to shifting forces during transport, said load restraining strip comprising:

a first, cross-weave layer of reinforcement material having a first side and a second side and being composed of,

substantially parallel longitudinal strands extending along the length of said restraining strip, and

transverse crossing strands interwoven with said substantially parallel longitudinal strands to produce said cross-weave layer of reinforcement material;

a first adhesive layer having a first side and a second side and said first side of said first layer of adhesive coextensively extending along , coating and bonding to said second side of said cross-weave material;

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a second, parallel strand layer of reinforcement material having a first side and a second side, wherein said second side of said first adhesive layer is bonded to said first side of said second, parallel strand layer of reinforcement material;

a second layer of adhesive having a first side and a second side and at least partially extending along and coating a portion of said second side of said second strand layer of reinforcement material; and

a release paper extending coextensively with and releasably adhered to the second side of said second layer of adhesive, wherein said release paper may be removed from said second layer of adhesive on site and said load restraining strip releasably affixed to an interior surface of a cargo transport container such that said load restraining strip may be used as a flexible securement element to secure cargo within a transport container.

Claim 24 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 23 wherein said first, cross-weave layer of reinforcement material is formed such that:

spacing between next adjacent ones of said transverse crossing strands of said cross-weave layer of reinforcement material is approximately twice as great as

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spacing between next adjacent strands of ones of said substantially parallel longitudinal strands.

Claim 25 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 23 wherein said first, cross-weave layer of reinforcement material further comprises:

a pliant clear coating applied to an outer surface of said cross-weave material.

Claim 26 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 25 wherein said pliant coating comprises:

a layer of biaxially-oriented polyethylene terephthalate polyester film.

Claim 27 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 23 wherein said first adhesive layer includes:

a spun bonded polyester substrate located generally centrally within said first adhesive layer.

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Claim 28 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 23 wherein:

said substantially parallel longitudinal strands of said cross-weave layer comprises a plurality of finer denier fibers of reinforcement material.

Claim 29 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 28 wherein:

said strands of second, parallel strand layer of reinforcement material comprise a plurality of finer denier fibers of reinforcing material.

Claim 30 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 28 or 29, wherein said finer denier fibers are composed of:

a combination of at least two different fibers selected from the group consisting of a polyester, polypropylene, polyethylene, polyolefin, glass fiber, aramid, carbon fiber and polyamide fibers with amide groups separated by para-phenylene groups.

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Claim 31 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 23, wherein said second layer of adhesive includes:

a substrate material having a first side and a second side;

a first course of adhesive covering said first side of said substrate material and adhered to said second side of said second, parallel strand layer of reinforcement material; and

a second course of adhesive covering said second side of said substrate material and being operable for adhering contact with an interior surface of a cargo transport container.

Claim 32 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 39, wherein said substrate material comprises:

a strip of biaxially-oriented polyethylene terephthalate polyester film material.

Claim 33 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 31, wherein:

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said first course of adhesive of said second layer of adhesive is thicker
than said second course of adhesive.

Claim 34 (currently amended): A load restraining strip for use in securing cargo
within a transport container, which cargo is subject to shifting forces during transport,
said load restraining strip comprising: -

a first layer of reinforcement material having a first side and a second side and a
first edge and a second edge and being composed of substantially parallel
longitudinal strands extending along the length of said restraining strip;

a first adhesive layer having a first side and a second side and said first side of
said first adhesive layer coextensively extending along, coating and bonding to
said second side of said first layer of reinforcement material;

a second, parallel strand layer of reinforcement material having a first side and a
second side, wherein said second side of said first adhesive layer is bonded to said
first side of said second, parallel strand layer of reinforcement material;

a second layer of adhesive having a first side and a second side and at least
partially extending along and coating a portion of said second side of said second
strand layer of reinforcement material; and

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a release paper extending coextensively with and releasably adhered to the second side of said second layer of adhesive, wherein said release paper may be removed from said second layer of adhesive on site and said load restraining strip releasably affixed to an interior surface of a cargo transport container such that said load restraining strip may be used as a flexible securement element to secure cargo within a transport container.

Claim 35 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 34 further comprising:

crossing strands extending from said first edge to said second edge of said first side of said first layer of reinforcement material.

Claim 36 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 35 wherein:

said crossing strands extend transversely from said first edge to said second edge of said first side of said first layer of reinforcement material.

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Claim 37 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 34 wherein said first layer of reinforcement material further comprises:

a pliant coating applied to an outer surface of said cross-weave material.

Claim 38 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 37 wherein said pliant coating comprises:

a layer of biaxially-oriented polyethylene terephthalate polyester film.

Claim 39 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 34 wherein said first adhesive layer includes:

a spun bonded polyester substrate located generally centrally within said first adhesive layer.

Claim 40 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 34 wherein:

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said substantially parallel longitudinal strands of said first layer of reinforcement material comprise a plurality of finer denier fibers of reinforcement material.

Claim 41 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 40 wherein:

said strands of said second parallel strand layer of reinforcement material comprise a plurality of finer denier fibers of reinforcing material.

Claim 42 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 40 or 41, wherein said finer denier fibers are composed of:

a combination of at least two different fibers selected from the group consisting of a polyester, polypropylene, polyethylene, polyolefin, glass fiber, aramid, carbon fiber and polyamide fibers with amide groups separated by para-phenylene groups.

Claim 43 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 34, wherein said second layer of adhesive includes:

a substrate material having a first side and a second side;

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a first course of adhesive covering said first side of said substrate material and adhered to said second side of said second, parallel strand layer of reinforcement material; and

a second course of adhesive covering said second side of said substrate material and being operable for adhering contact with an interior surface of a cargo transport container.

Claim 44 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 43, wherein said substrate material comprises:

a strip of biaxially-oriented polyethylene terephthalate polyester film material.

Claim 45 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 43, wherein:

said first course of adhesive of said second layer of adhesive is thicker than said second course of adhesive.

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Claim 46 (currently amended): A load restraining strip for use in securing cargo within a transport container, which cargo is subject to shifting forces during transport, said load restraining strip comprising:

a first layer of reinforcement material having a first side and a second side and a first edge and a second edge and being composed of substantially parallel longitudinal strands extending along the length of said restraining strip;

a first adhesive layer having a first side and a second side and said first side of said first adhesive layer coextensively extending along, coating and bonding to said second side of said first layer of reinforcement material;

a second, parallel strand layer of reinforcement material having a first side and a second side, wherein said second side of said first adhesive layer is bonded to said first side of said second, parallel strand layer of reinforcement material;

a second layer of adhesive having a first side and a second side and at least partially extending along and coating a portion of one of said first side of said first strand layer of reinforcement material and said second side of said second strand layer of reinforcement material; and

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a release paper extending coextensively with and releasably adhered to the second side of said second layer of adhesive, wherein said release paper may be removed from said second layer of adhesive on site and said load restraining strip releasably affixed to an interior surface of a cargo transport container such that said load restraining strip may be used as a flexible securement element to secure cargo within a transport container.

Claim 47 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 46, further comprising:

a plurality of crossing strands interwoven with said substantially parallel longitudinal strands of said first layer of reinforcement material to form a cross-weave layer.

Claim 48 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 47 wherein said first layer of reinforcement material is formed such that:

spacing between next adjacent ones of said crossing strands of said first layer of reinforcement material is approximately twice as great as spacing between next adjacent strands of ones of said substantially parallel longitudinal strands.

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Claim 49 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 46 wherein said first layer of reinforcement material further comprises:

a pliant coating applied to an outer surface of one of said first layer of reinforcement material and said second layer of reinforcement material.

Claim 50 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 49 wherein said pliant coating comprises:

a layer of biaxially-oriented polyethylene terephthalate polyester film.

Claim 51 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 46 wherein said first adhesive layer includes:

a spun bonded polyester substrate located generally centrally within said first adhesive layer.

Claim 52 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 46 wherein:

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said substantially parallel longitudinal strands of said first layer of reinforcement material comprise a plurality of finer denier fibers of reinforcement material.

Claim 53 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 52 wherein:

said strands of said second parallel strand layer of reinforcement material comprise a plurality of finer denier fibers of reinforcing material.

Claim 54 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 52 or 53, wherein said finer denier fibers are composed of:

a combination of at least two different fibers selected from the group consisting of a polyester, polypropylene, polyethylene, polyolefin, glass fiber, aramid, carbon fiber and polyamide fibers with amide groups separated by para-phenylene groups.

Claim 55 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 46, wherein said second layer of adhesive includes:

a substrate material having a first side and a second side;

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a first course of adhesive covering said first side of said substrate material and adhered to said second side of said second, parallel strand layer of reinforcement material; and

a second course of adhesive covering said second side of said substrate material and being operable for adhering contact with an interior surface of a cargo transport container.

Claim 56 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 55, wherein said substrate material comprises:

a strip of biaxially-oriented polyethylene terephthalate polyester film material.

Claim 57 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 55, wherein:

said first course of adhesive of said second layer of adhesive is thicker than said second course of adhesive.

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Claim 58 (new): A load restraining strip for use in securing cargo within a transport container, which cargo is subject to shifting forces during transport, said load restraining strip comprising:

a first layer of reinforcement material having a first side and a second side and a first edge and a second edge and being composed of substantially parallel longitudinal strands extending along the length of said restraining strip;

a first adhesive layer having a first side and a second side and said first side of said first adhesive layer coextensively extending along, coating and bonding to said second side of said first layer of reinforcement material;

a second, parallel strand layer of reinforcement material having a first side and a second side, wherein said second side of said first adhesive layer is bonded to said first side of said second, parallel strand layer of reinforcement material;

a second layer of adhesive having a first side and a second side and at least partially extending along and coating a portion of one of said first side of said first layer of reinforcement material and said second side of said second strand layer of reinforcement material;

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a pliant coating applied to one of said first side of said first layer of reinforcement material and said second side of said second strand layer of reinforcement material wherein said pliant coating is applied to the side opposite the second layer of adhesive; and

a release paper extending coextensively with and releasably adhered to the second side of said second layer of adhesive, wherein said release paper may be removed from said second layer of adhesive on site and said load restraining strip releasably affixed to an interior surface of a cargo transport container such that said load restraining strip may be used as a flexible securement element to secure cargo within a transport container.

Claim 59 (new): A load restraining strip for use in securing cargo within a transport container as defined in claim 58, further comprising:

a plurality of crossing strands interwoven with said substantially parallel longitudinal strands of one of said first layer of reinforcement material and said second strand layer of reinforcement material to form a cross-weave layer.

Claim 60 (new): A load restraining strip for use in securing cargo within a transport container as defined in claim 59 wherein said cross-weave layer of reinforcement material is formed such that:

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spacing between next adjacent ones of said crossing strands of said first layer of reinforcement material is approximately twice as great as spacing between next adjacent strands of ones of said substantially parallel longitudinal strands.

Claim 61 (new): A load restraining strip for use in securing cargo within a transport container as defined in claim 58 wherein said pliant coating comprises:

a layer of biaxially-oriented polyethylene terephthalate polyester film.

Claim 62 (new): A load restraining strip for use in securing cargo within a transport container as defined in claim 58 wherein said first adhesive layer includes:

a spun bonded polyester substrate located generally centrally within said first adhesive layer.

Claim 63 (new): A load restraining strip for use in securing cargo within a transport container as defined in claim 58 wherein:

said substantially parallel longitudinal strands of said first layer of reinforcement material comprise a plurality of finer denier fibers of reinforcement material.

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Claim 64 (new): A load restraining strip for use in securing cargo within a transport container as defined in claim 58 wherein:

said strands of said second parallel strand layer of reinforcement material comprise a plurality of finer denier fibers of reinforcing material.

Claim 65 (new): A load restraining strip for use in securing cargo within a transport container as defined in claim 63 or 64, wherein said finer denier fibers are composed of:

a combination of at least two different fibers selected from the group consisting of a polyester, polypropylene, polyethylene, polyolefin, glass fiber, aramid, carbon fiber and polyamide fibers with amide groups separated by para-phenylene groups.

Claim 66 (new): A load restraining strip for use in securing cargo within a transport container as defined in claim 58, wherein said second layer of adhesive includes:

a substrate material having a first side and a second side;

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a first course of adhesive covering said first side of said substrate material and adhered to said second side of said second, parallel strand layer of reinforcement material; and

a second course of adhesive covering said second side of said substrate material and being operable for adhering contact with an interior surface of a cargo transport container.

Claim 67 (new): A load restraining strip for use in securing cargo within a transport container as defined in claim 66, wherein said substrate material comprises:

a strip of biaxially-oriented polyethylene terephthalate polyester film material.

Claim 68 (new): A load restraining strip for use in securing cargo within a transport container as defined in claim 66, wherein:

said first course of adhesive of said second layer of adhesive is thicker than said second course of adhesive.